JETP Letters 2005 vol.81 N8, pages 387-389

Skyrmion-approach study of the magnetic properties and spin kinetics of weakly doped cuprates

Belov S., Ineev A., Kochelaev B.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

The evolution of the magnetic and kinetic properties of quasi-two-dimensional cuprates has been studied upon doping CuO2 planes with electron holes. The notion of thermal skyrmions and hole-induced skyrmions was used to determine the spin-correlation length and nuclear relaxation rate as functions of temperature and hole concentration. © 2005 Pleiades Publishing, Inc.

http://dx.doi.org/10.1134/1.1951014